



# AOE TECH CO.,LTD

## Handheld PON Optitcal Power Meter

### JF-H660I

#### 1. General

PON Optical Power Meter is a developed power meter targeted at the FTTX design, application and maintenance. It can simultaneously test the signal of the voice, data and video. It is an ideal test instrument for the PON projects and for the construction and maintenance of FTTX.

#### 2. Components

- 1、Handheld PON Optical Power Meter-----1pcs
- 2、FC/SC/ST Connector-----1set
- 3、User Manual-----1book
- 4、1.5V AA battery-----4pcs
- 5、Power adapter-----1pcs
- 6、USB data wire-----1pcs
- 7、CD-----1pcs
- 8、Cleaning cotton swab-----1bag

#### 3.Specification

Calibrated Wavelength	1310 upstream	1490 downstream	1550 downstream
Bandwidth (nm)	1260~1360	1470~1505	1535~1570
Measurement Range (dBm)	-40~+10	-40~+10	-40~+20
Isolution1310nm (dB)		>40	>40
Isolution 1490nm (dB)	>40		>40
Isolution 1550nm (dB)	>40	>40	
Uncertainty (dB)		±0.5	
PDL (dB)		<±0.25	

Linearity (dB)	±0.1
Insertion Loss (dB)	<1.5
Resolution	0.01dB
Fiber Type	SM
Operating Temperature (°C)	-10~+60
Storage Temperature (°C)	-25~+70
Dimension (mmg)	180*80*48

## 4. Instructions



1490/1550 Downstream



1310nm Upstream

USB data cable port










Power Supply Port




AC/DC Converter

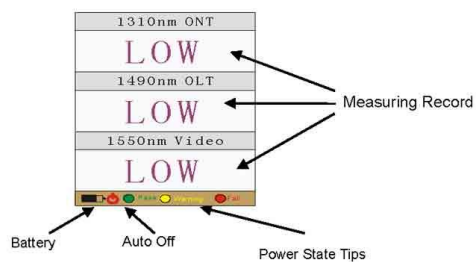
### 4.1 Key Instruction


Sign	Functions
	Turn On/off, or auto off function
REF	Relative measurement(dB)
THRESHOLD	check the current threshold
SAVE	Save the current record or setting
	Exit the current operation
	function selection, Data <b>increase</b>
	Function selection, Data <b>decrease</b>
	Cursor right or to next page
	Cursor left or to last page
	Enter the menu or select the current operations

## 5. Usage Direction

### 5.1 Power On

Press  key,Power on,



Three wavelength can be dispalyed simultaneously. 1310nm upstream and 1490/1550nm downstream.if there is light in optical channel,test value will be displayed, if there is no light,indicates“LOW” if it displayed icon”  “ in the top left hand corner, warn to switch off






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automatically in ten minutes.press      key to set auto off in ten minutes, and press      key again to cancel it.


### 5.2 Power Off

when power meter is on,press  key for 2 seconds,then powered off.



### 5.3 Function Setting

5.3.1      press  key into the Menu setting,the unit of test value can be optional (dBm、mW、dB)

5.3.2 Press  key again into threshold setting(1-10 groups can be optional), press  once,the value increase 0.05dB;press  once,decrease 0.05dB.

5.3.3 Press“SAVE”key to save the current record,press  key to exit,back to main interface.

### 5.4 Usage instruction

5.4.1 Press  key to turn on optical power meter, press  key for short time to select if it will auto off or not in ten minutes,then enter into menu to choose threshold.

5.4.2 Access to measured fiber, can simultaneously measurement three wavelength 1310nm upstream,1490nm、 1550nm downstream,for example,

THRESHOLD 01 (+3dBm, -10dBm, -30dBm) , The test result show: 1310nm upstream power meter value is +1dBm, The threshold in the range between +3 and -10dBm,it is normal, so the color of 1310nm power value is green; If the threshold between -10dBm and -30dBm, it means some problem in the fiber but it still works, so the color of 1310nm power value is yellow; If the test value is not in the range, That is,>+3dBm or <-30dBm, it means there is problem in the fiber ,too strong ,or too weak. So the color is red. And the same principle with 1490nm、 1550nm.